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APPLICANT : NIPPON POLYURETHANE IND CO LTD;

INVENTOR : YANO AKIYOSHI;

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TITLE : PRODUCTION OF THERMOPLASTIC POLYURETHANE RESIN

ABSTRACT : PURPOSE: To obtain the subject resin generating little fish-eye defects, having excellent heat-resistance and solvent resistance and suitable for extrusion molding, etc., by polymerizing respective specific long-chain diol, short-chain diol, compatibilizing agent and organic diisocyanate at specific ratios.

CONSTITUTION: The objective resin is produced by polymerizing (A) an organic diisocyanate such as tolylene diisocyanate with a diol component consisting of (B) a long-chain diol having a molecular weight of 500-5,000 (e.g. polyester diol), (C) a short-chain diol having a molecular weight of 60-500 (e.g. ethylene glycol) and (D) a diol containing ester group and having a molecular weight of 130-500 as a compatibilizing agent at a $D/(B+C)$ molar ratio of $15/85 \geq D/(B+C) \geq 0.1/99.9$.

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